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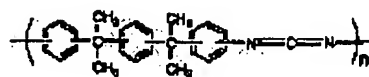
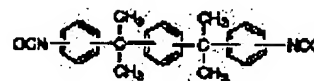
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(54) AROMATIC POLYCARBODIIMIDE AND ITS SHEET

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain an polycarbodiimide having a high solubility in organic solvents, good in processability and having excellent heat and moisture resistances by polymerizing a specific diisocyanate monomer.

SOLUTION: (A) A diisocyanate monomer represented by formula I is used as a monomer and polymerized in the presence of (B) a phosphorus-based catalyst (e.g. 1-phenyl-2-phospholene-1-oxide) preferably at 40-150°C to thereby afford an aromatic polycarbodiimide having a constitutional unit represented by formula II [(n) is 2-300]. In the above polymerization, the concentration of the component A is preferably 5-70 wt.%. A molded product prepared by molding the polycarbodiimide into a filmy form can be used as a heat-resistant bonding sheet and is useful for especially a fixing treatment for electrical and electronic parts such as semiconductor chips or lead frames requiring the fixing treatment of high reliability and further low hygroscopicity.



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